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37	137	489	310	42	329	223	90	Q	7	14	Ō	14	14	7	10
213	327	207	279	243	362	272	53	0	38	36	35	35	0	46	O
400	212	386	192	295	334	88	116	0	10	102	213	77	66	6	0
G	132	81	64	0	108	47	45	0	180	145	67	29	140	e	ij
Э	284	215	31	20	246	141	26	0	221	247	29	14	174	Q	O
149	242	96	7	117	205	27	0	10	122	170	27	0	128	0	0
15*	228	38	31	97	173	18	0	21	92	146	5	Ð	40	O	3
G	G	G	73	7	0	9	5	0	0	0	Ð	0	0	0	O
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FIG. 1



RECEIVE A FILE THAT CONTAINS A HEADER THAT CONTAINS MULTI-SCALE ENTROPY DISTRIBUTION INFORMATION ON BLOCKS OF AN IMAGE

201

FOR EACH BLOCK, ASSIGN TO THE BLOCK A SCALE FROM A SET OF SCALES THAT MAXIMIZES A COST FUNCTION, WHEREIN THE COST FUNCTION IS A PRODUCT OF A TOTAL LIKELIHOOD AND A PRIOR, WHEREIN THE TOTAL LIKELIHOOD IS A PRODUCT OF INDIVIDUAL LIKELIHOODS OF THE BLOCKS

202

SEGMENT THE IMAGE BY GROUPING TOGETHER BLOCKS THAT HAVE BEEN ASSIGNED EQUIVALENT SCALES

FIG. 2

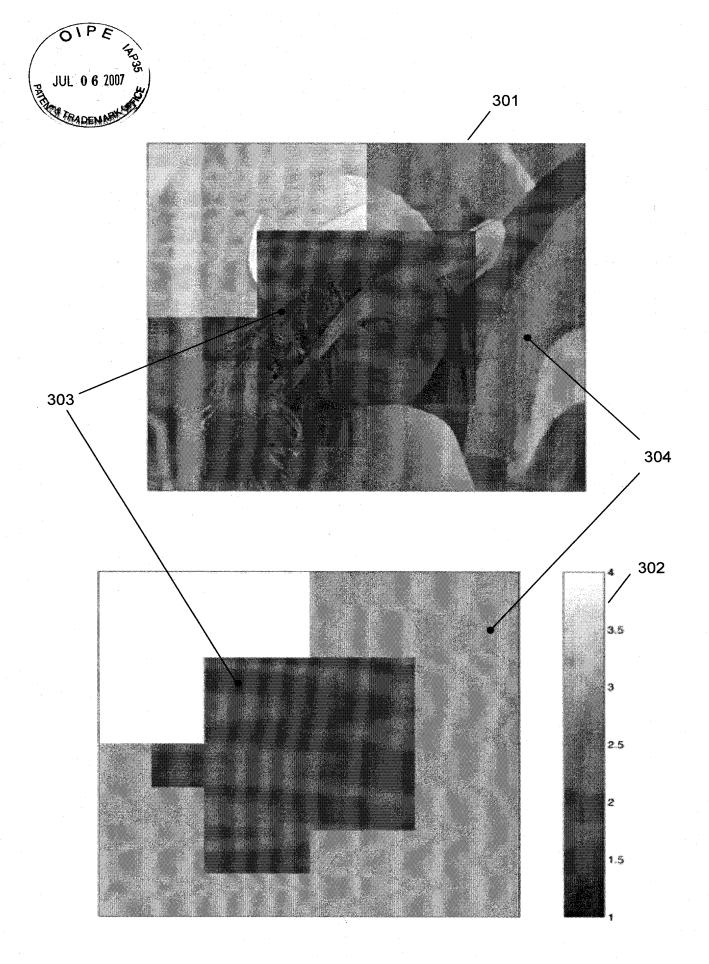


FIG. 3



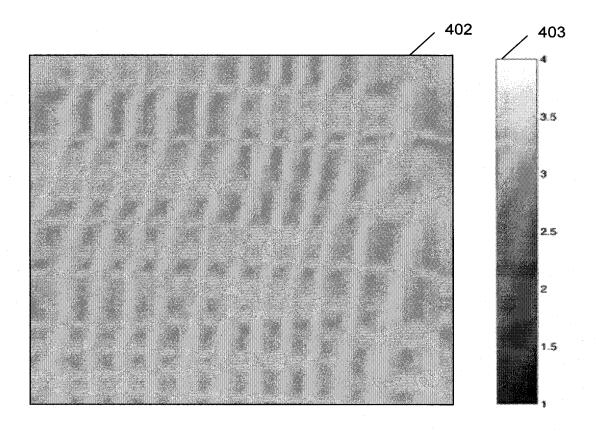


FIG. 4



RECEIVE A FILE THAT CONTAINS A HEADER THAT CONTAINS MULTI-SCALE ENTROPY DISTRIBUTION INFORMATION ON BLOCKS OF AN IMAGE

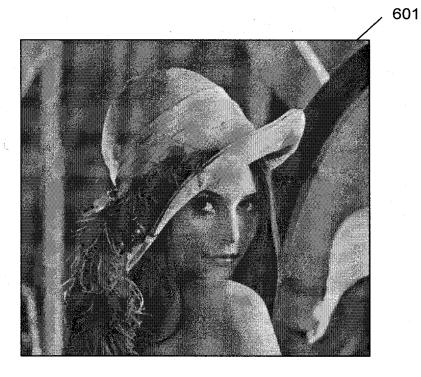
501

FOR EACH BLOCK, DETERMINE IF THE BLOCK RETAINS SIGNIFICANCE AT A SCALE BY DETERMING WHETHER AN ENTROPY OF A MULTI-SCALE COEFFICIENT OF A BLOCK AT THE SCALE IS GREATER THAN A MEAN ENTROPY OF MULTI-SCALE COEFFICIENTS OF BLOCKS IN AT LEAST ONE COARSER SCALE

502

SCALE THE IMAGE TO A COARSEST SCALE AT WHICH AT THRESHOLD PERCENTAGE OF THE BLOCKS RETAIN SIGNIFICANCE AT THE SCALE





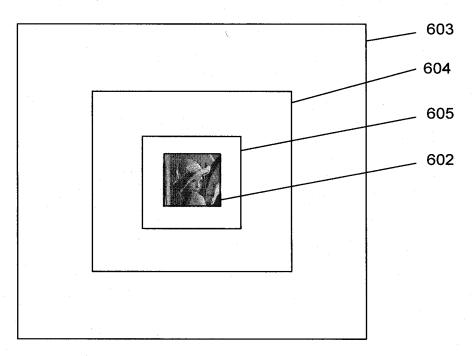


FIG. 6



1微也/末永 稔/真弓重考 三/西頭恒明/田村俊一/金 列三河正久/広野彩子/谷 三/三河正久/広野彩子/谷 生田崇志/和田一成/川口 れんげ/小平和良/熊野信 野子/上野絵子/安藤由子/ シー支局長 川嶋 諭/ニュ ドマン/ワシントン特約駐在

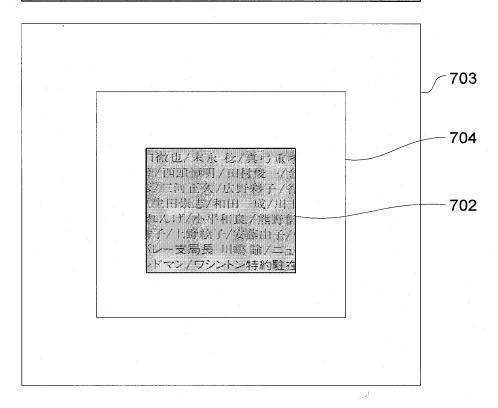


FIG. 7



RECEIVE A FILE THAT CONTAINS MULTI-SCALE ENTROPY DISTRIBUTION INFORMATION ON BLOCKS OF AN IMAGE AND RECEIVE SHAPE CONSTRAINTS SUCH AS DISPLAY WIDTH AND DISPLAY HEIGHT

801

FOR EACH BLOCK AND FOR EACH SCALE OF A SET OF SCALES, SET A CUMULATIVE ENTROPY DISTRIBUTION FOR THE BLOCK AT THAT SCALE EQUAL TO A WEIGHTED SUMMATION OF A NUMBER OF BITS SPENT TO CODE THE BLOCK FOR SCALES AT AND BETWEEN THE FIRST SCALE AND A MAXIMUM SCALE

802

FOR EACH BLOCK, EACH SCALE CHOSEN FROM A SET OF SCALES, AND EACH WIDTH AND HEIGHT OFFSET CHOSEN WITHIN THE GIVEN IMAGE WIDTH AND HEIGHT, SET AN INDICATOR FUNCTION OF THE BLOCK AT THE CHOSEN SCALE AND CHOSEN WIDTH AND HEIGHT OFFSET TO ONE UPON DETERMINING THAT THE WIDTH LOCATION OF THE BLOCK IS NOT GREATER THAN A FIRST MINIMUM VALUE OF A SET CONSISTING OF THE CHOSEN WIDTH OFFSET AND A SUM OF THE CHOSEN WIDTH OFFSET WITH THE DISPLAY WIDTH SCALED BY THE CHOSEN SCALE, AND THE HEIGHT LOCATION OF THE BLOCK IS NOT GREATER THAN A FIRST MINIMUM VALUE OF A SET CONSISTING OF THE CHOSEN HEIGHT OFFSET AND A SUM OF THE CHOSEN HEIGHT OFFSET AND A SUM OF THE CHOSEN HEIGHT OFFSET WITH THE DISPLAY HEIGHT SCALED BY THE CHOSEN SCALE

803

COMPUTE AN OPTIMAL LOCATION (WIDTH AND HEIGHT OFFSET) AND AN OPTIMAL SCALE THAT TOGETHER MAXIMIZE A SUMMATION CONSISTING OF THE CUMULATIVE ENTROPY DISTRIBUTION FOR THE BLOCK MULTIPLIED WITH THE INDICATOR FUNCTION OF THE BLOCK (CHARACTERIZED BY THE SCALE, WIDTH AND HEIGHT OFFSET)

AND WITH A PARAMETER

804

CROP THE IMAGE TO THE OPTIMAL LOCATION AND DOWN-SAMPLE THE RESULTING CROPPED IMAGE TO THE OPTIMAL SCALE





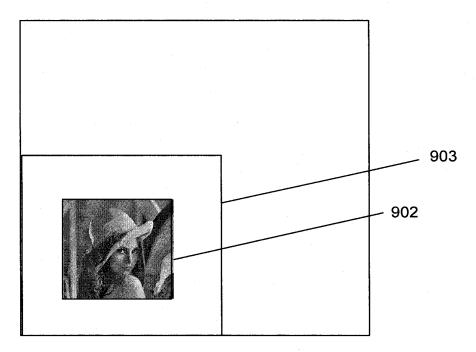


FIG. 9

1001

口徹也/末永 稔/真弓重考 2/西頭恒明/田村俊一/台 2/三河正久/広野彩子/谷 2/三河正久/広野彩子/谷 1/上田崇志/和田一成/川山 れんげ/小平和良/熊野信 年子/上野絵子/安藤由子// ドマン/ワシントン特約駐右

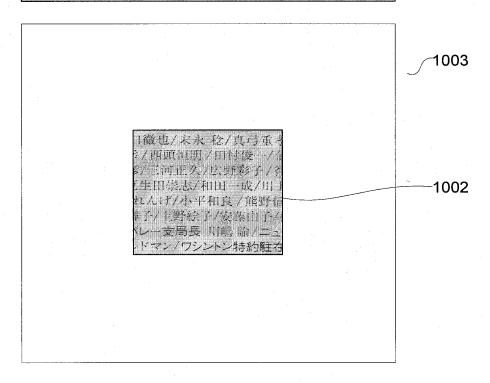


FIG. 10



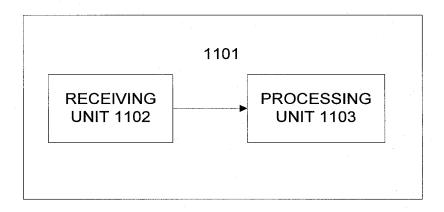


FIG. 11A



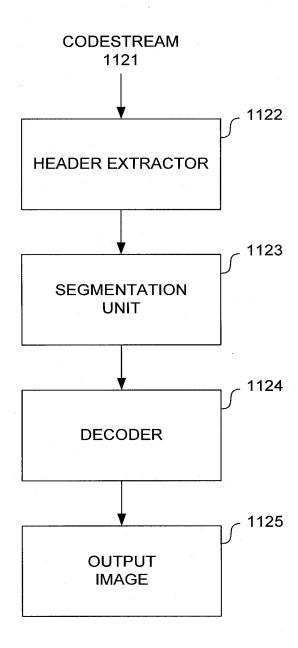


FIG. 11B



<u>1200</u>

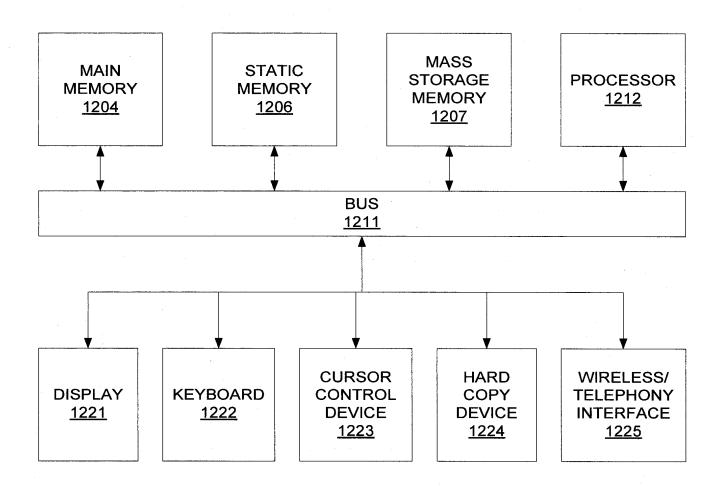


FIG. 12